7th International Artillery and Indirect Fire Symposium & Exhibition

Raymond Lam

PM Intelligence & Effects (PM IE)

Of

PEO Command, Control & Communications Tactical (PEO C3T)

June 19, 2002

Topics

- **PEO C3T Organization**
- **PM - Intelligence & Effects (PM IE) Organization**
- **PM IE Products (Effects Systems) that supports Army Objective Force**
  - **Advanced Field Artillery Tactical Data System (AFATDS)**
  - **Pocket-Sized Forward Entry Device (PFED)**
  - **Light Weight Tactical Fire Direction Systems (LWTFDS)**
  - **Gun Display Unit Replacement (GDU-R)**
  - **Lightweight Forward Entry Device (LFED)**

PEO C3S
(Before Army PEO Alignment)

PEO
BG Michael Mazzucchi
Deborah Cleavenger -- Secretary
(732) 427-4937 -- DSN 987
SFAE-C3S

XO
MAJ Michelle Nassar
(732) 532-3938 -- DSN 992
SFAE-C3S-XO

Technical Advisor
Mr. John Kreger (MITRE)
(732) 389-6742

Fax Numbers
EXECUTIVE OFFICE:
732-427-4030 - DSN 987
HRO/REO:
(732) 389-0042 (Commercial Only)
FIO/HTI:
(732) 542-1364 (Commercial Only)
OPS/PSBM FAX:
(732) 532-0146 - DSN 992

CTSF (Ft Hood)
COL Stephen Bahr
(254) 288 - 4035 -- DSN 738
SFAE-C3S-CTS

Deputy PEOs
Mr. Robert Lehnes
Leona Atkinson -- Secretary
(732) 427-4148 -- DSN 987
SFAE-C3S
Mr. John Perrapato
Carol Lepre -- Secretary
(732) 427-2055 -- DSN 987
SFAE-C3S

Pentagon LNO
Ms. Mary Quiroz (703) 695-8444 -- DSN 225
Ms. Kathy Collier (703) 695-8447 -- DSN 225

As Of
28 June 2001

Human Resources
Mrs. Marie Frost (Acting)
(732) 532 - 0143
DSN 992
SFAE-C3S-HRO

Prog Spt Bus Mgt
Dr. Deborah Frank
(732) 532 - 0140
DSN 992
SFAE-C3S-PMO

Chief Information Office
Mr. Emerson Keslar
(732) 532-0254
DSN 992
SFAE-C3S-CIO

Operations
Mrs. Josephine Van Holt
(732) 532-0082
DSN 992
SFAE-C3S-OPS

Force XXI Integration
Mr. Chuck Pizzutelli
(732) 427 - 4797
DSN 987
SFAE-C3S-FIO

Horizontal Tech Integration
Mr. Joe Johnson
(732) 532 - 0180
DSN 992
SFAE-C3S-HTI

Readiness Engineering
Mr. Richard Koval
(732) 427 - 2677
DSN 987
SFAE-C3S-REO

PM TOCs/AMDCCS
COL Gary Jerauld
(256) 895 - 3441 --DSN 788
SFAE-C3S-AD

PM Intel Fusion
COL Charles F. McMaster
(703) 704 - 0310 --DSN 654
SFAE-C3S-INT

Merge on 3/02

PM FATDS
COL David Meriwether
(732) 427 - 3090 --DSN 987
SFAE-C3S-FS

PM ATCCS
COL Stephen Horner
(732) 532 - 4041 --DSN 992
SFAE-C3S-AT

PD CTIS
Mr. Mark Hainsey (Acting)
(703) 428 - 6876 --DSN 328
CETEC-TL-G

PM FBCB2
COL Stephen Monks
(732) 427 - 3237 --DSN 987
SFAE-C3S-AP

PM TRCS
COL John Grobmeier
(732) 427 - 3063 --DSN 987
SFAE-C3S-TRC

PM MILSATCOM
Mr. Henry Jehan
(732) 532 - 7244 --DSN 992
SFAE-C3S-MSA

PM WIN-T
COL Edward Siomacco
(732) 532 - 4740 --DSN 992
SFAE-C3S-WIN

PEO C3T
(After Army PEO Alignment)

PEO
BG Michael Mazzucchi
Deborah Clevenger -- Secretary
(732) 427-4937 -- DSN 987
SFAE-C3T

XO
MAJ Jonas Vogelhut
(732) 532-3938 -- DSN 992
SFAE-C3T-XO

Fax Numbers
EXECUTIVE OFFICE:
732-427-4030 - DSN 987
HRO/REO:
(732) 389-0042 (Commercial Only)
FIO/HTI:
(732) 542-1364 (Commercial Only)
OPS/PSBM FAX:
(732) 532-0146 - DSN 992

Assistant PEO
Dir, CTSF (Ft Hood)
COL Stephen Bahr
(254) 288 - 4035 -- DSN 738
SFAE-C3T-CTS

Deputy PEOs
Mr. Robert Lehnes
Leona Atkinson -- Secretary
(732) 427-4148 -- DSN 987
SFAE-C3T
Mr. John Perrapato
Carol Lepre -- Secretary
(732) 427-2055 -- DSN 987
SFAE-C3T

Pentagon LNO
Ms. Mary Quiroz (703) 695-8444 -- DSN 225
Ms. Kathy Collier (703) 695-8447 -- DSN 225
MAJ Ken Rodgers (703) 614-8406 -- DSN 224

Human Resources
Mrs. Marie Frost (Acting)
(732) 532 - 0143
DSN 992
SFAE-C3T-HRO

Business Management
Mr. Robert Bernstein
(732) 532 - 0140
DSN 992
SFAE-C3T-BMO

Chief Information Office
Mr. Emerson Keslar
(732) 532-0254
DSN 992
SFAE-C3T-CIO

Operations
Dr. Debbie Frank
(732) 532-0082
DSN 992
SFAE-C3T-OPS

Force XXI Integration
Mr. Chuck Pizzutelli
(732) 427 - 4797
DSN 987
SFAE-C3T-FIO

Horizontal Tech Integration
Mr. Joe Johnson
(732) 532 - 0180
DSN 992
SFAE-C3T-HTI

Readiness Engineering
Mr. Richard Koval
(732) 427 - 2677
DSN 987
SFAE-C3T-REO

PM GC-C2
COL Stephen Horner
(732) 532 - 4041 --DSN 992
SFAE-C3T-GC

PM Intel & Effects
COL Charles F. McMaster
(703) 704 - 0310 --DSN 654
SFAE-C3T-IE

PM TOCs/AMDCCS
COL Gary Jerauld
(256) 774 - 6706 --DSN 266
SFAE-C3T-AD

PM WIN-T
COL Thomas Cole
(732) 532 - 4740 --DSN 992
SFAE-C3T-WIN

PM FBCB2
COL Nickolas Justice
(732) 427 - 3237 --DSN 987
SFAE-C3T-FB

PM TRCS
COL John Grobmeier
(732) 427 - 3063 --DSN 987
SFAE-C3T-TRC

PEO C3T ORG
As of April 1, 2002

PM Intelligence and Effects (PM IE)

- Project Manager of PM IE - COL Charles McMaster
  - Deputy Project Manager for Intelligence Systems (Ft Belvoir, VA)- Mr. Wes Welch
  - Deputy Project Manager for Effects Systems (Ft Monmouth, NJ)- Mr. Arthur Santo-Donato
- PdM Fire Support (Advanced Field Artillery Tactical Data System)- LTC Dan Hughes
- PdM ASAS (All Source Analysis System)- LTC Jim Ralph
- PD LFED/PFED- Mr. Jeffrey Weiss
- PD Technical Fire Control- Mr. Milton Eng
- PD IMETS (Integrated Meteorological System)- Mr. Bob Dickenshied

Effects Systems Office Mission & Products

- To develop, acquire and field battlefield information systems that provide the Army and Joint Warfighter with superior Command and Control (C2) capabilities designed to delivery of land-, air- and sea-based effects and fires across all echelons of the Transition and Objective Force.

- Effects Systems Office Products
  - Objective Force
    - Block 3 AFATDS/Effect Control System (ECS)
    - Pocket-Sized Forward Entry Device (PFED)
    - Light Weight Tactical Fire Direction Systems (LWTFDS)
    - Gun Display Unit Replacement (GDU-R)
    - Lightweight Forward Entry Device (LFED)
  - Interim Force
    - Block 2 AFATDS
    - Battery Computer System (BCS)/Fire Direction System (FDS)
    - Forward Entry Device (FED)
  - Legacy Force
    - Initial Fire Support Automated System (IFSAS)
      - Transition to CECOM by May 2001

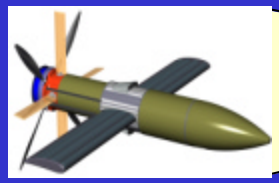
Major Picatinny Arsenal Interactions

Lightweight 155 Howitzer

Crusader

PM-TMAS

Quicklook



Paladin

Towed Artillery Digitization (TAD)

Mortar Fire Control System

Excalibur

AFATDS
Hardware Configurations

Dual UltraSparc Computer Unit (UCU) in M1068

Compact Computer Unit 2 (CCU2) in Soft top

Compact Computer Unit 2 (CCU2) in Rigid Wall Shelter

Product Manager

LTC Daniel P. Hughes (732) 427-3328

daniel.hughes@us.army.mil

Deputy Product Manager

Ms. Julie Ruhnke (732) 427-3094

jruhnke@c3smail.monmouth.army.mil

AFATDS History

- **IOT&E passed Sep 1995**
- **Materiel Release approved Dec 1996**
- **Hardware Contract through Product Manager Common Hardware, Ft. Monmouth**
- **Original contract awarded 1990**
- **New contract awarded 1999**
- **Same Software Contractor but with different names**
  - **Magnavox (1984) -->Hughes Defense (1996)-->Raytheon (1998)**

What is AFATDS

A Multi-Service (US ARMY / USMC)
Integrated Battlefield Management and Fire Support C2 System







AFATDS Mission

- **Coordinate Air, Land and Sea based Indirect Fire Systems to support Maneuver operations**
- **Calculate Optimal Fire Support Solution to attack the right target(s), at the right time with right weapon and munition(s)**
- **Starting with AFATDS version 6.3 (formerly known as A99), Technical Fire Solution will also be provided**

AFATDS Automates the Weapon Selection Process

- Analyzing available Fire Support Assets
- Analyzing targets
- Applying Commander's Guidance

Commanders Guidance:

Target Selection Standards

Target Filtering Criteria

Priority of Fires

Fire Support Assets:

Location

Weapon Type

Ammo Status

Readiness

Range

Area of Operations

Enemy Unit Locations

Friendly Unit Locations

Fire Support Coordination Measures

Optimum Fire Support System

AFATDS Interoperability

US Air Force

- Contingency Theater Automated Planning System
- Theater Battle Management Core System
- Air Support Requests / Air Tasking Orders

US Navy

- Global Command & Control System - Maritime
- Coordination of Naval Surface Fire Support
- Provides Tactical Land Picture to Naval Forces

US Army

- ABCS Command & Control Systems

Maneuver *Air Defense* *Intelligence* *Combat Support*

- Global Command & Control System - Army
- Force XXI Battle Command Brigade & Below
- Attack Helicopters
- Field Artillery / Fire Support Automated Systems
- Ground and Airborne Sensor Systems

Allied

Artillery Systems Cooperation Activities

Germany

United Kingdom

United States

Italy

France

Communications

- All Army Tactical Communications Media (EPLRS, NTDR, SINCGARS, MSE, etc.,)
- Satellite Communications
- US Message Text Formatting
- Joint Variable Message Format
- MIL-STD-188-220B

Joint / Combined Program Initiatives

- US Marine Corps involvement
- On-going efforts with the US Navy
- Interoperability with the US Air Force
- NATO/Allied interoperability

USMC Initiatives

- Co-Developer of AFATDS
  - Key role in defining AFATDS requirements
  - Marine Corps functionality major portion of A98 Software release
- AFATDS software provides for unique USMC terminology/requirements (implemented at system initialization)

Navy Initiatives

- AFATDS has been actively involved in US Navy Exercises since 1996
- Interoperable with GCCS-M
- Navy functionality added to AFATDS to support NFCS interface:
  - SH/FZ combinations for Navy conventional munitions
  - JVMF Messages defined in AFATDS/NFCS ICD
  - Representation of Naval units to support multiple weapons platforms (e.g., ERGM, LASM)
  - Basic guidance in AFATDS to support LASM and ERGM
  - Incorporation of Navy Symbology

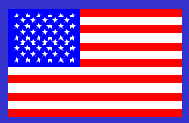
Air Force Initiatives

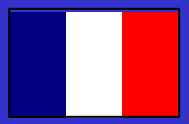
- AFATDS/CTAPS interface briefed at Army - Air Force Warfighter Talks, Dec 1995
  - Interface implementation accelerated by the CSA / CSAF
- Initial AFATDS/TBMCS interface testing conducted at the DT level in January 1999
- Successful DT/OT conducted October 1999 including successful load-test of the AFATDS/TBMCS Interface
- AFATDS actively participating in continued TBMCS testing (MOTE on-going)

CTAPS - Contingency Theater Automated Planning System
TBMCS - Theater Battle Management Core System (CTAPS follow on)

International Initiatives

- AFATDS is a key element in the Artillery Systems Cooperation Activities (ASCA)
- Purpose: To achieve interoperability among the Fire Support C2 Systems of the five participating nations
- Interoperability is governed by the ASCA Common Technical Interface Design Plan (CTIDP)


United States


France


United Kingdom


Germany


Italy

AFATDS Baseline Software

Original Contract (1990)

Block I			Block II
A96	A97	A98	V6.X
Base Contract Delivery	Option 1	Option 2	Option 3

New Contract (1999)

Block II			Block III
V7	V8	V9	
Base Contract Delivery	Option 1	Option 2	Effects Control System (ECS)

AFATDS Baseline Software Functionality

- Block I reflected the functionality described in the original ORD dated August 1993
- Block II began in FY98, and reflects the coordinated ABCS system with simultaneous vertical requirements and horizontal interoperability requirements including the incorporation of Battery Computer System (BCS)/Fire Direction System (FDS) functionality into AFATDS
- Block III will reflect the future C3 demands of the Objective Force as AFATDS evolves into the Effects Control System (ECS) and will interoperate with the ABCS family and other systems

Pocket-Sized Forward Entry Device (PFED)

Product Director - Mr. Jeffrey Weiss, (732) 427-3365

What is PFED

- The Pocket-Sized Forward Entry Device (PFED) is a Windows CE based Rugged-Handheld Device that provides "Calls for Fire" and Surveillance capabilities for dismounted warfighters such as Forward Observers and Fire Support Teams
- Interoperable with AFATDS and Legacy FS Systems
- USMC DACT program joining PFED effort under auspice of J-PFED MOU with MCSC
- Booz Allen Hamilton is the software prime contractor
  - HW provider has not been finalized, but will be placed on PdM Common Hardware contract (First fielded units are being developed by Talla-Tech)
- Hand-on user evaluation is scheduled for late 2002

PFED System Configuration

PFED System Components

PFED Remote Unit

PFED Junction Box

Headset and Microphone

Equipment shown for illustrative purposes only.
Subject to change.

Compatible with Fielded Equipment

PLGR

Viper

D-MELIOS

SINCGARS ASIP

PFED Configuration (July 02 Release)

- Front-end
  - Bluetooth to LASER Range Finder
  - Bluetooth to Junction Box
  - Internal/Bluetooth/Phonojack Microphone
- Junction Box
  - Serial to PLGR
  - SPTCIM to ASIP
  - Bluetooth to Front-end

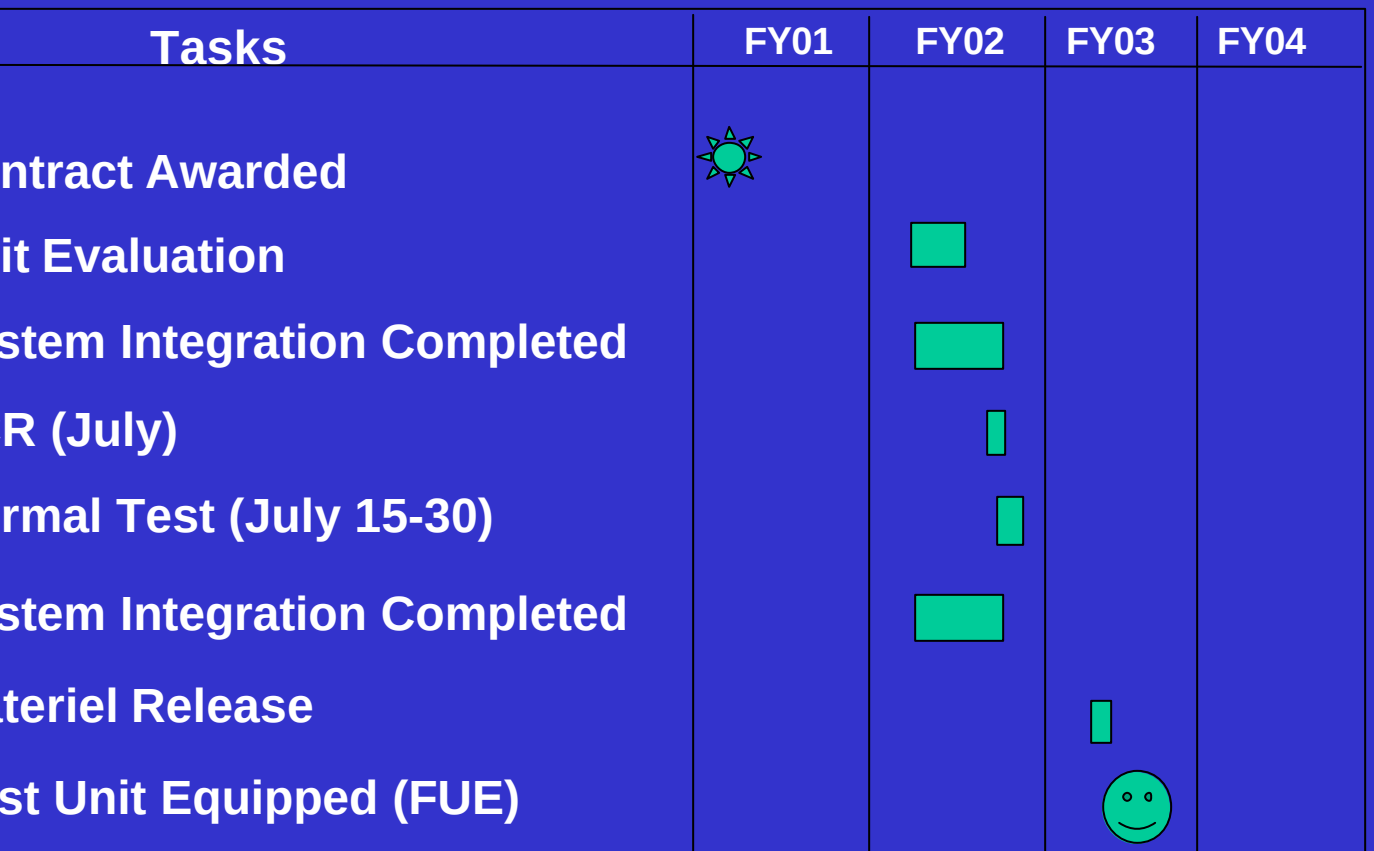
PFED Configuration (First Fielded Version)

- **Front-end (Bluetooth Enabled)**
  - GPS Embedded
  - Wireless to Headset
- **Junction Box (Bluetooth Enabled)**
  - Wireless to LASER Range Finder
  - Wireless to Front-end
  - SPTCIM/TACLINK wired to ASIP
  - Ability to connect to existing PLGR via Serial Port

Personal Digital Assistant (PDA) Roadmap

- Compaq iPAQ 3600 Series
  - 206 MHz Intel StrongARM SA-1110
  - 64 MB RAM
  - 16 MB Flash ROM
  - Operating Temperature 32°F – 104°F
  - 1 Serial Port
  - 4096 Color Touch Sensitive Reflective Thin Film Transistor (TFT) LCD
  - 950 mAh Lithium Polymer Rechargeable Battery
- Compaq iPAQ 3700 Series
  - + 32 MB Flash ROM
- Compaq iPAQ 3800 Series
  - + 65,536 color TFT LCD
  - + 1400 mAh Lithium Polymer Rechargeable Battery
  - + Embedded Bluetooth Circuitry

PFED Schedule



LWTFDS

Product Director - Mr. Milton Eng, (732) 427-3991

LWTFDS

LWTFDS
High Level HW Requirements

- MS Pocket PC 2002 OS
- 64 MB memory (Anticipate 128 MB memory by Mid 2002)
- StrongArm Processor
- 1/4 VGA Display
- PCMCIA, Serial output SP-TCIM
- Current Plan is using same PFED HW for development

What is LWTFDS

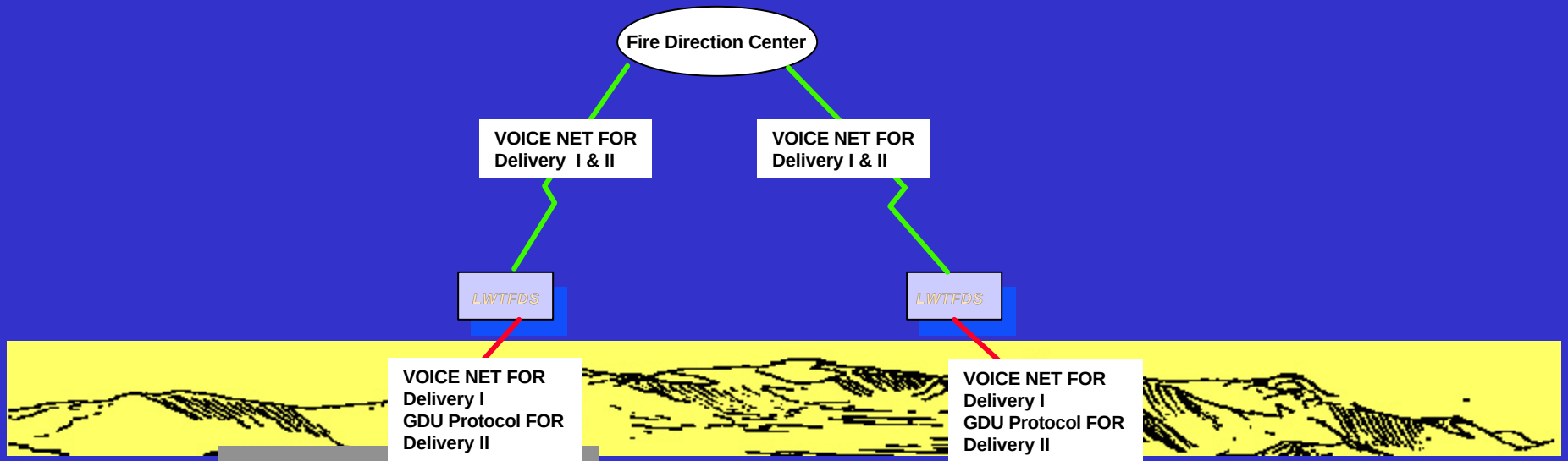
- The Light Weight Tactical Fire Direction Systems (LWTFDS) is a light weight, ruggedized, hand held technical fire direction computer that provides technical solution (NABK based ballistic computation) for cannon systems
- The LWTFDS system is initially intended as a Back-up Computer System (BUCS) replacement
- Raytheon/Indianapolis is the system integrator
- Hand-on user evaluation is scheduled for late 2002

LWTFDS Operation

- Provide “Light Forces” (Airborne, Air Assault, Light Infantry Divisions) an immediate digital technical Fire Direction during initial entry operations on a hand-held platform
- Provide all US Army Cannon Artillery units an independent check for ballistic computation solutions
- Designed only to be a Technical Solution for Cannon Systems - Not a tactical fire support system

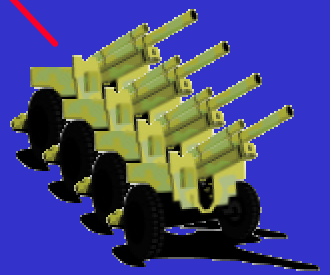
LWTFDS Application

LWTFDS provide Technical Fire Control of Towed and Self-Propelled <u>Cannon systems</u> of the US Military



Up to 12 Weapons per LWTFDS with All being of the same Weapon model:

M102
M109A2
M109A3
M109A4
M109A5
M109A6
M119A1
M198
M777



System Capability

- Initiate Fire Mission from operator entered data
  - FFE (Low/High Angle)
  - Adjust (Low/High Angle)
  - Assign Priority (FPF, Copperhead)
  - Registrations (Precision, HB/MPI)
- Integrate NABK version 3.02 (support MACS/MOFA)
- Store of operator entered data for:
  - Fire Unit and Other Unit data
  - MET - Std MET and up to 2 Computer METs (1 current and 1 alternative)
  - Target data (up to 99 targets)
  - Map MOD
- Enable operator to view computed ballistics solutions

System Capability (Continued)

- LWTFDS will also provide:
  - a mission status monitor
  - operator capability for subsequent mission command
  - operator view and control of registration missions
  - a Safety-T calculator
  - a printer interface
  - a wireline GDU interface
  - computation of gun locations from battery center
  - a MVV calculator using operator entered data
  - Weapon and Aimpoint selection logic

LWTFDS Functional Evolution

Delivery I

FOCUS:

- **BASIC TECHNICAL FIRE DIRECTION CAPABILITY**

Built around the NABK software.

Validate solutions do not violate operator entered Safety-T.

Fire Mission types supported

- **FFE**
- **Adjust**
- **Assign Priority**
- **Registration**

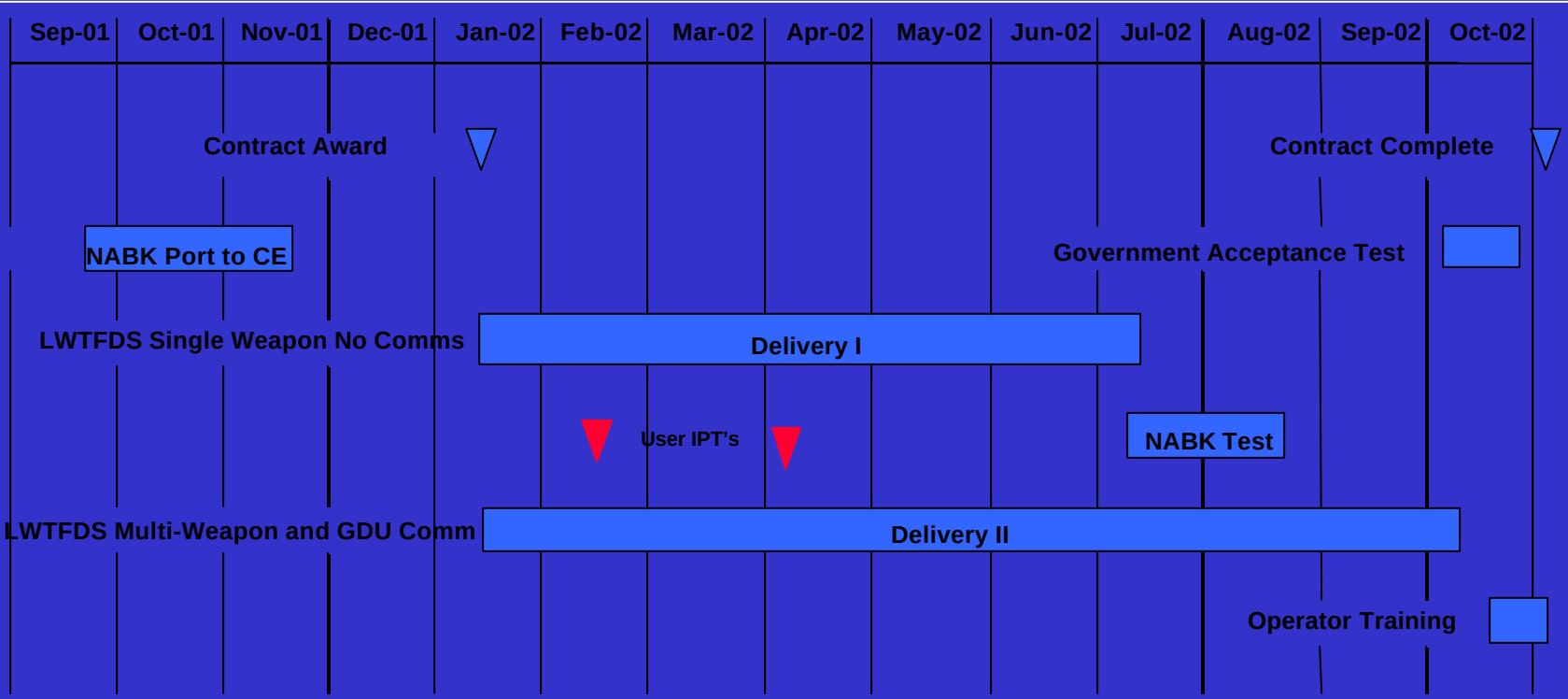
Supports All US Cannon Projectiles, Propellants and Fuzes.

Delivery II

FOCUS:

- **ADD MULTI-WEAPON SOLUTIONS**
- **ADD DIGITAL COMM WITH GDUs**

LWTFD Schedule



Gun Display Unit Replacement (GDU-R)

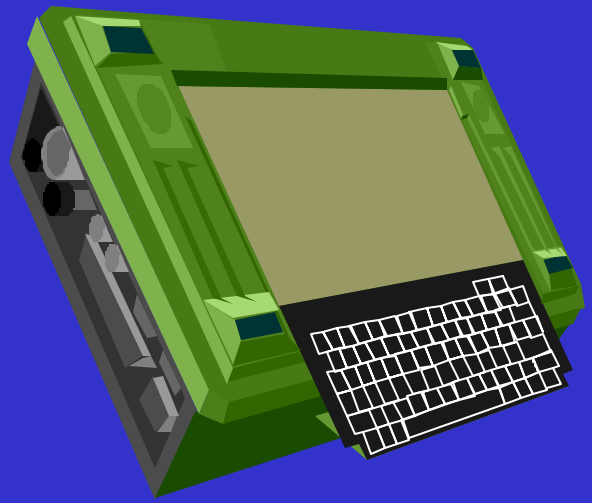
Product Director - Mr. Milton Eng, (732) 427-3991

GDU-R

- According to the CECOM Logistics Readiness Center (LRC) Sustainment Manager for GDUs: “There are currently only five (5) self-propelled howitzer-type and one (1) towed howitzer-type Condition “A” stock GDUs that remain available for issue and they are no longer available for acquisition”
- PM I&E (PM-EFCCS) proactively assumed the GDU Replacement (GDU-R) mission back in May 01
- The GDU-R will fix the obsolete and unsupportable GDU hardware that is currently being sustained within the Depot System through inconsistent parts cannibalization
- The GDU-R will leverage the hardware and communications capabilities of the existing Windows CE-based PFED and the hand-held technical fire control capability of the LWTFDS
- The GDU-R will also be required for near- and mid-term Brigade Combat Team (BCT) towed artillery fieldings occurring prior to late-FY06 (i.e. scheduled commencement of TAD fieldings).
- PM I&E has been unsuccessful in its repeated attempts to obtain the necessary GDU-R funding for this high priority readiness initiative.

Lightweight Forward Entry Device (LFED)

Handheld Terminal Unit (HTU)



Lightweight Forward Entry Device (LFED) in FISTV

Ruggedized Handheld Computer (RHC)

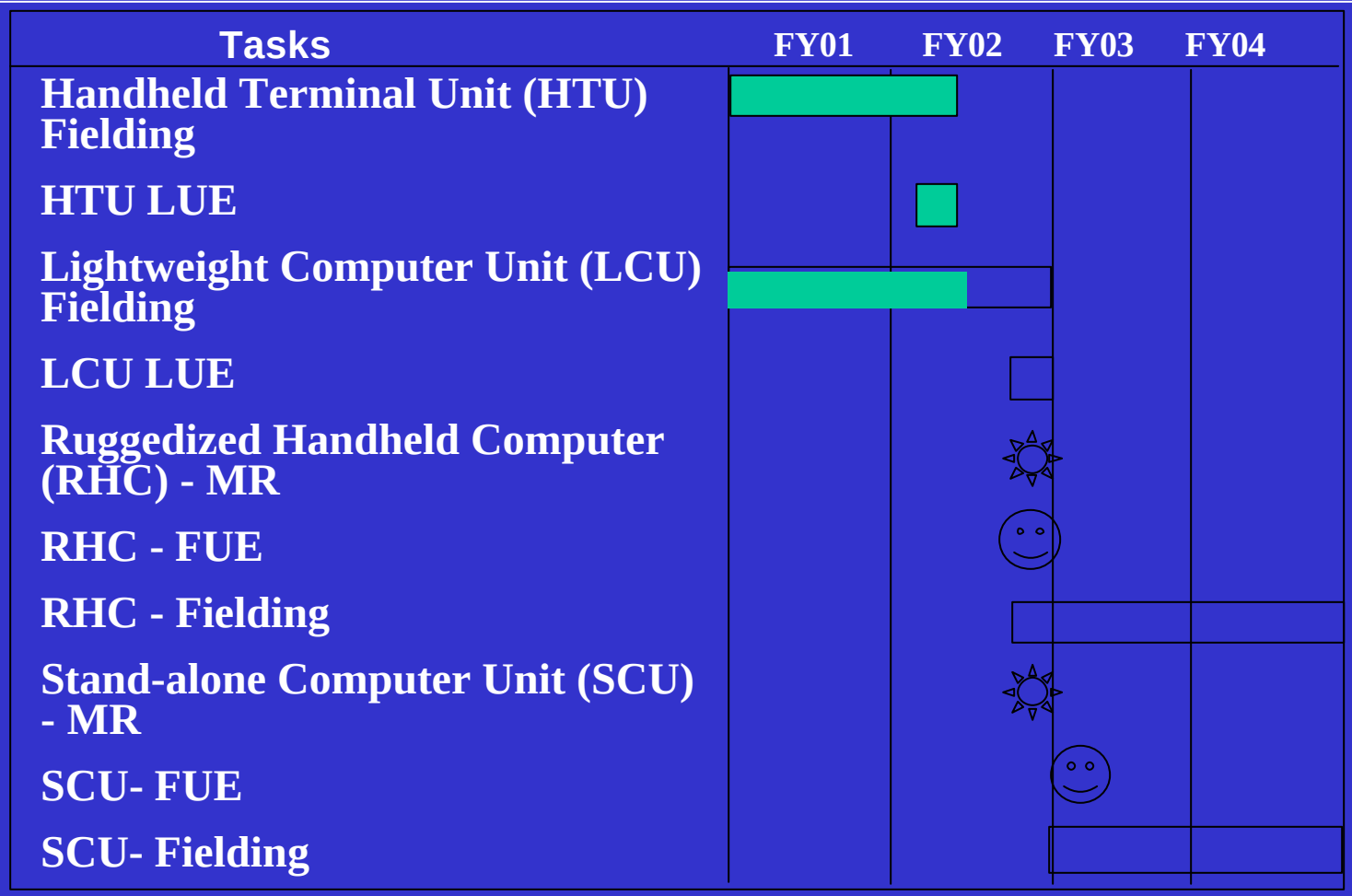
Stand-alone Computer Unit (SCU)

Product Director - Mr. Jeffrey Weiss, (732) 427-3365

LFED

- The LFED is a lightweight solution for infantry platoon Forward Observers (FO's), Combat Observation Lasing Teams (COLT's) and FA Survey Parties to pass fire control and fire support information to all subscribers identified in FM 6-20-40 and FM 6-20-50
- Current LFED configurations include
  - Handheld Terminal Unit (HTU) AN/PSG-9
  - Ruggedized Handheld Computer (RHC) AN/PSG-11
  - Lightweight Computer Unit (LCU) AN/GYK-37
  - Stand-alone Computer Unit (SCU) (FY 03)
- Material Released on 29 July 1999

Program Schedule (LFED/FED)



LUE-Last Unit Equipped

FUE-First Unit Equipped

MR-Materiel Release

Project Management Office, Intelligence and Effects Systems (Effects Systems)

Attn: SFAE-C3T-IE-E
Bldg 457
Ft. Monmouth, NJ 07703-5404

LNO's
DISC4
MAJ Karla Donovan - (703) 695-9074

DAMO FDG
MAJ Mike Taylor - (703) 692-7253

PMO
COL Charles McMaster - 73090
Art Santo-Donato - 73091
Mobile Phone - (732) 239-6312
Joann Beck - 73083 (Sec) #

COMM	**(732)427-XXXX (DSN - 987)**
COMM	**(732)532-XXXX (DSN - 992)**
FAX	**73322**
CONF RM	**29317/22467**

Technical Management Division

Paul Manz – 73099
Mobile Phone – (732) 539-6310
Michelle O'Brien - 73329 (Sec)
Jerry Brown - 73097 (m)
Linglee Dietrich - 26005 (m)
John Flatt - 23609 (m)
Wing Fong - 73356 (m)
Ken Grippo - 22402
Cynthia Inteso – 26004
Andrew Liang - 73369 >>
Patrick O'Brien - 25226 (m)
Edward Patches - 26006 (m)
Henry Saphow – 73373
Ralph Simon - 28290 (m)

Business Management Division

Charles Foster - 73301 (Chief)
Mobile Phone - (732) 616-0578
Billie Marie Popes - 73995(Sec)
Patricia Corea - 73093
Warren Epstein - 25014 (m)
Carol Gann - 28291
Paul Herrmann - 28365 (m)
Sam Hwang - 73990 (m)
Bud Kofron - 73353
Carmen Lees - 73377 //
Anne Salzano - 73992 (m)
Carol Scaglione - 73781++
Linda Swenarton - 25989 (m)
Mary Vallone - 73304
Bob Varca - 73993 **

Readiness Management Division

Frank Grimaldi - 73728 (Chief)
Mobile Phone - (732) 539-8158
Joann Daniels -73370 (Sec)
Mike Carroll - 73371 (m)
Woody Carter - 28742
SFC George Figueroa - 28981
Roy Fort - 73378 (m)
John Levy - 21838 (m)
Johnnie McCaskill - 73996
Jim Rafferty - 73731
Dutming Seto - 73367 (m)
Margaret Spears - 73343 (m) %
Joe Vermette - 20850 (ESP)
Marie Warshaw - 73342 (m)

Product Director , Technical Fire Control

Milton Eng - 73991
Michelle O'Brien - 73329 (Sec)

Product Manager, Fire Spt (AFATDS)

LTC Daniel P. Hughes - 73328
Mobile Phone -(732) 239-6070
Pager - (888) 694-7033
Julie Ruhnke - 73094
Mobile Phone - (732) 616-3135
Billie Marie Popes - 73995 (Sec)

Product Director, LFED/PFED LAN Spt

Jeffrey Weiss - 73365
Pager No. 1-800-206-5414
2065414@skytel.com
Michelle O'Brien - 73329 (Sec)
Tracie Hill - 29244 (MTI)
John Landmesser – 28366
Brigitte Navarro - 26058 (MTI)
Ilene Sagen -73727 (MTI)

APM Exercises & Experiments

LTC Rich Miles - 29243
Mobile Phone: (732) 239-1658
Michelle O'Brien - 73329 (Sec)
Mary Redfield - 72229 (m)
Larkin Gates - (Korea, CSC)
DSN: 315-784-8704242

APM, Test

Jonas Zeman -73994
Mobile Phone - (732) 239-4299
Joann Daniels -73370 (Sec)
Freddie Clark - 28368 (m)
Anthony Chiu - 29308 (m)
Bill Jee - 22795 (m)
Angel Pacheco - 73092 (m)
Renata Sawicki - 26735 (m)
Bun Tse - 26734 (m)

USMC, LNO

Vacant

Field Office, Ft Sill, OK

Rosemary McGlothlin (580) 442-3756
Cell Phone - (580) 695-2063
DSN FAX 639-7434

Field Office, Picatinny, NJ

Raymond Lam
(973) 724-8521 DSN 888-8521
(732) 427-3384 DSN 987-3384

Field Office, Ft Hood, TX

Martha Meek - (254) 288-5511
Cell Phone 254) 702-9008
Fax - (254) 288-5491 DSN 738

Field Office, Prime Contractor Ft. Wayne, IN

Enrique Contreras - (260) 429-8361
FAX (260) 429-4337
Jim Brassell (m) - (260) 429-5276

Integrated Product Team A99 **Integrated Product Team 99+** **Integrated Product Team AV7**

(m) - Matrix ++ - Admin Officer % - Property Book ** - Building Custodian // - Safety Officer >> - Fire Warden # - Mail Control Officer

As of 03/27/02